**STORMVAULT BIOFILTRATION (SVBF)**

**MODEL: SVBF-UV 6X6**

**HYDRAULICS**

- **STORMWATER QUALITY DESIGN FLOW (SQDF):**
  - 6 in. X 6 in. CFS

- **STORM DRAIN CONVEYANCE FLOW:**
  - 6 in. X 6 in. CFS

- **RETURN FREQUENCY / PEAK OF PDAK CONVEYANCE FLOW:**
  - XX / YRS

**TREATMENT**

- **BIO SOILS FERTILIZATION MEDIA:**
  - Public Dom. Mix
  - BIOFILTRATION MEDIA

- **JENSEN'S SIERRA BLEND**
  - 10 in. X 10 in.
  - 6 in. X 6 in.

- **TREATMENT FLOW RATE:**
  - 0.096 CFS (6 in. X 6 in.)
  - 0.111 CFS (10 in. X 10 in.)
  - 2 GPM (6 in. X 6 in.)
  - 0.8 GPM (10 in. X 10 in.)

- **SVBF-UV 6X6 PEAK:**
  - 2.5 GPM / 50 GPM

- **STORMVAULT BIOFILTRATION (SVBF) DESIGN TO TREAT THE ENTIRE SQDF AT A RATE OF 193 INCHES/FT²/HR WHEN USING JENSEN'S ENGINEERED SIERRA BLEND BIO SOIL MEDIA.**

- **NOTE 13:**
  - BIO SOIL MEDIA
  - JENSEN'S SIERRA BLEND

- **LOADING RATE (HSLR):**
  - 0.1 GPM/FT² - 2 GPM/FT²

- **MODEL SVBF-UV 6X6:**
  - 30° RISER RING
  - 30° CAST IRON FRAME AND COVER
  - ALTERNATE COVER OR GRATE SYSTEMS AVAILABLE

**CONSTRUCTION & INSTALLATION NOTES**

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
3. CONTRACTOR MAY ALSO SUBSTITUTE ALL PIPE PENETRATIONS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD CURE OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS CONFORMING TO ASTM C923, AS MADE BY KOR-SEAL, A-24X, OR APPROVED EQUAL AND SHALL BE WATERTIGHT.
5. THE CONNECTION BETWEEN THE STORM DRAIN LINE AND THE SWF SHALL BE MADE USING A RESILIENT CONNECTION CONFORMING TO ASTM D3034, AS MADE BY KOR-SEAL, A-24X, OR APPROVED EQUAL AND SHALL BE WATERTIGHT.
6. VEGETATION, FOUNDATION, BACKFILL TO BE DESIGNED BY SVBF
7. BRIDGING STONE SHALL BE CLEAN, CRUSHED, AND SHAPED TO BE DESIGNED BY OTHERS.
8. SWF MAY BE DEPOSITED WITH UNFINISHED TOP OF WALLS TO BE POWDERED IN FIELD ALLOWING FOR CONSTRUCTION OF CONTINUOUS STREETSIDE AND LANDSCAPE FEATURES.
9. INLET FPC CAN BE LOCATED ON ANY SIDE OF THE BOX AND THE SIDE MAY BE A FLEXIBLE DESIGN.

**MATERIALS & DESIGN PARAMETERS**

1. **ALL DIMENSIONS ARE IN decimal inches.**
2. **CONCRETE SHALL HAVE A MINIMUM COMpressive STRENGTH F'c = 5,000 psi AT 28 DAYS.**
3. **THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE I/II HIGH STAINLESS RESISTANT CEMENT IN ACCORDANCE WITH ASTM C150, C 150-15G.**
4. **THE PLANT ACCEPTED THE SPECIFICATIONS OF THE CONTRACTOR AS SHOWN.**
5. **ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN NPRA CERTIFIED FACTORY.**
6. **IF REQUIRED, JENSEN'S SIERRA BLEND BIO SOIL WITH FLUID-APPLIED WATERPROOFING COATING AROUND EVERY INCH OF SURFACE OF SWF.**
7. **JENSEN'S SIERRA BLEND BIO SOIL SHALL BE DRIED AND WASHED.**
8. **ALL PVC PIPE SHALL CONFORM TO ASTM D 2166 (SDR 35 PIPE).**
9. **GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE.**
10. **STANDARD CONFIGURATIONS ARE SHOWN. ALTERNATIVE CONFIGURATIONS ARE AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS.**
11. **FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.**
12. **JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.**
13. **ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.**

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- **NOTES:**
  - 1. SVBF-UV 6X6
  - 2. All dimensions shown are of Jensen Precast products. Others are acceptable for verification that system meets intended application.
  - 3. Model design shown has been provided by Jensen Precast. Others are acceptable for verification that system meets intended application.
  - 4. Foundation, subgrade, and backfill to be designed by owners.
  - 5. GROUT
  - 6. FOUNDATIONS, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OWNERS.